

## Chlamydia Pneumonia

**Description:** Recombinant Chlamydia pneumonia antigen, produced in E.coli is derived from the CP major outer membrane protein (this region is recognized only by Chlamydia pneumonia antibody), it contains 160 amino acids and fused with a His Tag at C-terminus, having an MW of about 18kDa, the protein forms a monomer and a dimer on SDS-PAGE gel, the majority of the protein forms a dimer, which migrates at an MW of 40kDa. Chlamydia pneumonia is purified by proprietary chromatographic technique.

Catalog #:CTPS-017

For research use only.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Purity:** Protein is >95% pure as determined by 10% PAGE (coomassie staining).

**Formulation:**

50mM sodium chloride-phosphorous buffer, pH-7.4.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

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**Introduction:**

Chlamydia pneumoniae, a human pathogen causing respiratory infections and most likely contributing to the development of atherosclerosis and heart disease, is an obligate intracellular parasite which for replication needs to productively interact with and enter human cells. A specific region of a major outer membrane protein (MOMP), C. pneumonia is only recognized by C. pneumonia positive sera, and is used as an antigen for detection of IgG and IgM to Chlamydia pneumonia.

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